

**GB EC Declaration of Conformity**

The undersigned, authorised by E.O.P.I., declares that the following products: **Petrol Brushcutter 34-38-42-46cc**, manufactured by E.O.P.I., Valmadrera, Italia, are in accordance with the European Directives **98/37/EEC** (Machinery Directive), **93/68/CEE** (CE Marking Directive) & **89/336/CEE** (Directive on electromagnetic compatibility), directive **2000/14/CEE** (Annex V).

**DE CE Konformitätserklärung**

Der Unterzeichnete, bevollmächtigt durch E.O.P.I., erklärt, daß folgende Geräte: **Benzin Motorsensen 34-38-42-46cc**, hergestellt durch E.O.P.I., Valmadrera, Italia, den Europäischen Richtlinien **98/37/EEC** (Maschinenrichtlinie), **93/68/CEE** (CE Kennzeichnungsrichtlinie) & **89/336/CEE** (EMV Richtlinie) entsprechen, richtlinie **2000/14/CEE** (Anhang V).

**FR Déclaration de conformité Européenne**

Le soussigné, dûment mandaté par E.O.P.I., déclare que les produits suivants: **Petrol Brushcutter 34-38-42-46cc**, fabriqués par E.O.P.I., Valmadrera, Italia, sont conformes aux Directives Européennes **98/37/EEC** (Directive Sécurité Machine), **93/68/CEE** (Directive Marquage CE) & **89/336/CEE** (Directive EMC), directive **2000/14/CEE** (Annexe V).

**NL EG Conformiteitsverklaring**

Ondergetekende, gemachtigd door E.O.P.I., verklaart dat de volgende producten: **Benzine Bosmaaiër 34-38-42-46cc**, geproduceerd door E.O.P.I., Valmadrera, Italia voldoen aan de Europese Richtlijnen **98/37/CEE** (Machinerie Richtlijn), **93/68/CEE** (EG Markering Richtlijn) & **89/336/CEE** (Richtlijn aangaande elektromagnetische compatibiliteit), richtlijn **2000/14/CEE** (Annex V).

**NO EF Erklæring om Overensstemmelse**

Undertegnede, autorisert av E.O.P.I., erklærer at følgende produkt **Bensindrevet gress/krattrydderen 34-38-42-46cc**, konstruert av E.O.P.I. 23868 Valmadrera (Lecco) Via Como, 72 Italia, er i overensstemmelse med følgende europeiske direktiver: **98/37/CEE** (Maskineridirektiv), **93/68/CEE** (CE-merkingdirektiv) & **89/336/CEE** (Direktiv om elektromagnetisk kompatibilitet), direktiv **2000/14/CEE** (Annex V).

**FI EY Julistus Vastaavuudesta**

Allekirjoittanut, E.O.P.I. in valtuuttamana, vakuuttaa että seuraavat tuotteet: **Polttomootorikäyttöinen pensasleikkuri 34-38-42-46cc**, ja jotka on valmistanut E.O.P.I., Valmadrera, Italia, ovat Euroopan direktiivien **98/37/EEC** (Koneisto-direktiivi), **93/68/CEE** (CE Merkintä-direktiivi) & **89/336/CEE** (Elektromagneettinen Yhteensopivuus-direktiivi) mukainen, direktiivi **2000/14/CEE** (Liite V).

**SE EG-försäkrän om överensstämmelse**

Undertecknad, auktoriserad av E.O.P.I., försäkrar att följande produkter: **Bensintrimmer 34-38-42-46cc**, tillverkade av E.O.P.I., Valmadrera, Italia, är i överensstämmelse med följande europeiska direktiv **98/37/EEC** (Maskindirektiv), **93/68/CEE** (CE-märknings-direktiv) & **89/336/CEE** (Elektromagnetisk kompatibilitet), direktiv **2000/14/CEE** (Annex V).

**DK EU Overensstemmelseerklæring**

Undertegnede, bemyndiget af E.O.P.I., erklærer herved, at følgende produkter: **Benzindrevet Græstrimmer 34-38-42-46cc**, E.O.P.I., Valmadrera, Italia, er i overensstemmelse med de europæiske direktiver **98/37/EEC** (Maskineri direktiv), **93/68/CEE** (CE mærkningsdirektiv) & **89/336/CEE** (EMC-direktiv), direktiv **2000/14/CEE** (Annex V).

**ES Declaracion de cumplimiento de la directriz de la UE**

El abajo firmante, autorizado por E.O.P.I., afirma que los siguientes productos: **Desbrozador Gasolina 34-38-42-46cc**, fabricados por E.O.P.I., Valmadrera, Italia, cumplen con las directivas Europeas **98/37/EEC** (Directiva sobre Maquinaria), **93/68/CEE** (Directiva sobre Marcas de la CE) & **89/336/CEE** (Directiva sobre 'Compati-bilidad Electro Magnética'), directiva **2000/14/CEE** (Anexo V).

**PT Declaração de Conformidade**

O abaixo assinado, autorizado por E.O.P.I., declara que os seguintes produtos: **Roçadora a Gasolina 34-38-42-46cc**, fabricada por E.O.P.I., Valmadrera, Italia, estão de acordo com as Directivas Europeas **98/37/EEC** (Directiva de Maquinaria), **93/68/CEE** (Directiva de Marcação CE) & **89/336/CEE** (Directiva de Compatibilidade Electromagnética), directiva **2000/14/CEE** (Apêndice V).

**IT Dichiarazione di Conformità CE**

Il sottoscritto, autorizzato dalla E.O.P.I., dichiara che i seguenti prodotti: **Decespugliatori 34-38-42-46cc**, costruito da E.O.P.I., Valmadrera, Italia, sono conformi alle Direttive Europee: **98/37/EEC** (Direttiva Macchine), **93/68/CEE** (Direttiva Marcatura CEE) & **89/336/CEE** (Direttiva Compatibilità Elettromagnetica), direttiva **2000/14/CEE** (Allegato V).

**HU Technikai leírások**

Alulírott, rendelkező a E.O.P.I. engedélyével, kijelenti, hogy a jelentermék **34-38-42-46cc**, melyet a E.O.P.I. 23868 Valmadrera (Lecco) Via Como, 72 Italia, gyártott, megfelel az európai szabványoknak: **98/37/CEE** (gépekre vonatkozó), **93/68/CEE** (márkázásnak) és **89/336/CEE** (elektromágneses összességzetetehetőségnek) megfelelnek, direktíva **2000/14/CEE** (Melléklet V).

**GR Δήλωση Συμμόρφωσης προς τις Εντολές της ΕΕ**

Ο υπογεγραμμένος, με εξουσιοδότηση της Ε.Ο.Π.Ι., δηλώνει ότι τα εξής προϊόντα: **Κλαδευτήρι Βενζίνης για Θάμνους 34-38-42-46cc**, κατασκευασθέντα από την Ε.Ο.Π.Ι., Valmadrera, Italia, ΗΠΑ ανταποκρίνονται προς τις Ευρωπαϊκές Εντολές **98/37/CEE** (η περί Μηχανημάτων Εντολή), **93/68/CEE** (η περί του Σήματος CE Εντολή) & **89/336/CEE** (η περί Ηλεκτρομαγνητικής Συμβατότητας Εντολή), Αηρεκτηβα **2000/14/CEE** (Πρρηο επιη V).

Todero Carlo  
Valmadrera, 15.12.01  
Pino Todero (Direttore Tecnico)  
E.O.P.I.

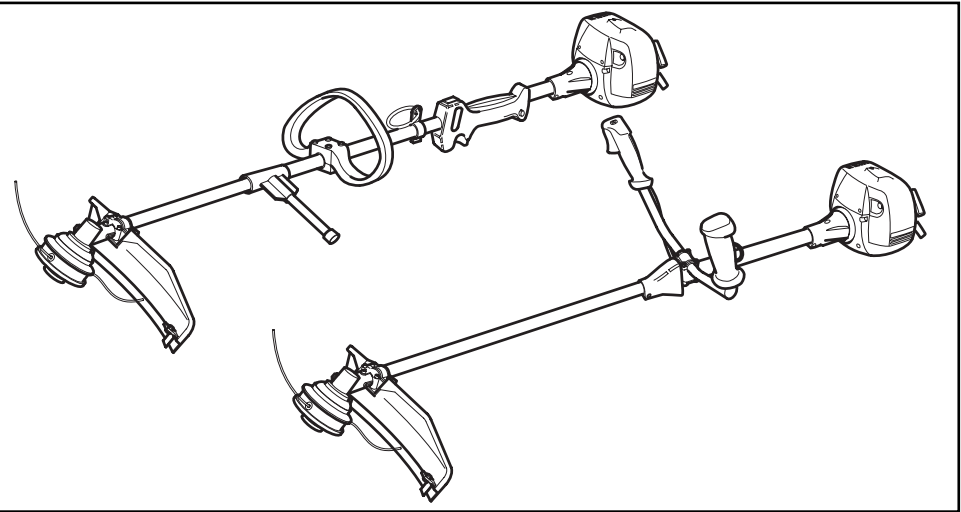
Electrolux Outdoor Products  
Via Como 72  
23868 Valmadrera (Lecco)  
ITALIA  
Phone +39 0341 203111 - Fax +39 0341 581671

Our policy of continuous improvement means that the specification of products may be altered from time to time without prior notice. Electrolux Outdoor Products manufacture products for a number of well known brands under various registered patents, designs and trademarks in several countries.  
© Electrolux Outdoor Products Italy

**The Electrolux Group. The world's No.1 choice.**

The Electrolux Group is the world's largest producer of powered appliances for kitchen, cleaning and outdoor use. More than 55 million Electrolux Group products (such as refrigerators, cookers, washing machines, vacuum cleaners, chain saws and lawn mowers) are sold each year to a value of approx. USD 14 billion in more than 150 countries around the world.

PN 249338 REV. 00 (11/03)



**ELITE 3325-3425/34 cc**  
**ELITE 3825-3925-3930/38 cc**  
**ELITE 4230x-4330x-4330xPRO/42 cc**  
**ELITE 4630x-4730x-4730xPRO/46 cc**  
**B 342 X / 34 cc**  
**B 412 X - B 422 X / 42 cc**  
**B 462 X - B 472 X / 46 cc**

**GB INSTRUCTION MANUAL**  
IMPORTANT INFORMATION: Please read these instructions carefully and make sure you understand them before using this unit. Retain these instructions for future reference.

**BETRIEBSANWEISUNG**  
WICHTIGE INFORMATION: Lesen Sie diese Hinweise zur Handhabung des Geräts aufmerksam durch. Verwenden Sie es erst, wenn Sie sicher sind, daß Sie alle Anweisungen verstanden haben und gut aufbewahren.

**MANUEL D'INSTRUCTIONS**  
RENSEIGNEMENTS IMPORTANTS: Avant d'utiliser cet appareil, veuillez lire attentivement les instructions et assurez-vous de les avoir comprises. Conservez les instructions pour référence ultérieure.

**HANDLEIDING**  
BELANGRIJKE IMPORTANTS: Lees deze handleiding aandachtig en zorg dat u alles begrijpt alvorens de kettingzaag te gebruiken en be-waar ze voor toekomstige raadpleging.

**BRUKERHÅNDBOK**  
VIKTIG INFORMASJON: Les disse anvisningene nøye og forsikre deg om at du forstår dem innan du bruker enheten og oppbevar dem for senere bruk.

**OHJEKIRJA**  
TÄRKEÄÄ TIETOA: Lue nämä ohjeet huolellisesti ja varmista, että olet ymmärtänyt ne, ennen kuin alat käyttää tätä laitetta ja säilytä myöhempää tarvetta varten.

**BRUKSANVISNING**  
VIKTIG INFORMATION: Läs instruktionerna noggrant och försäkra dig om att du förstår dem innan du använder utrustningen och spara dem för framtida behov.

**DK BRUGERHÅNDBOG**  
VIGTIGE OPLYSNINGER: Læs instruktionerne omhyggeligt, før du bruger enheden og gemme til senere henvisning.

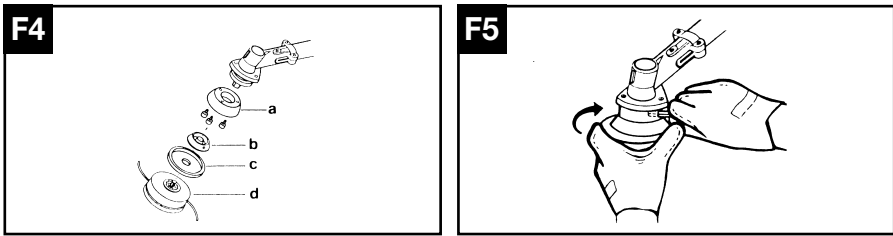
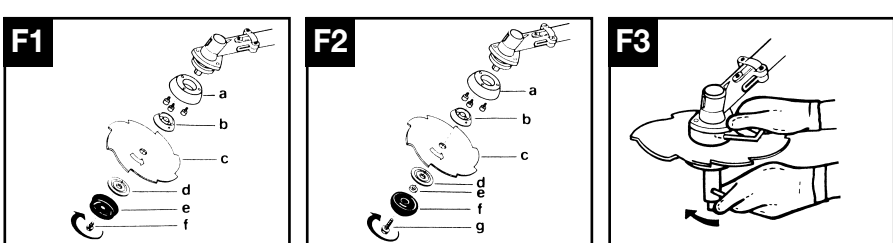
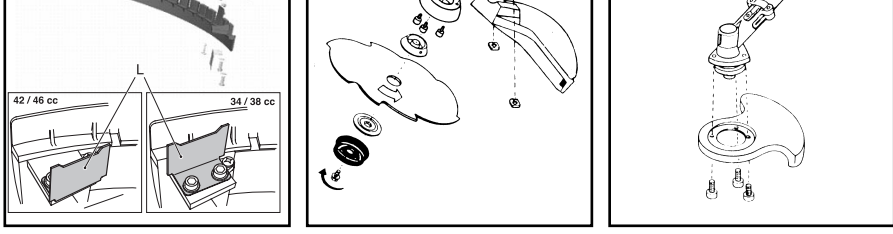
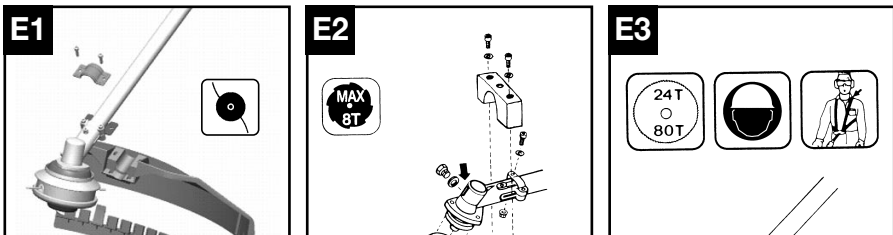
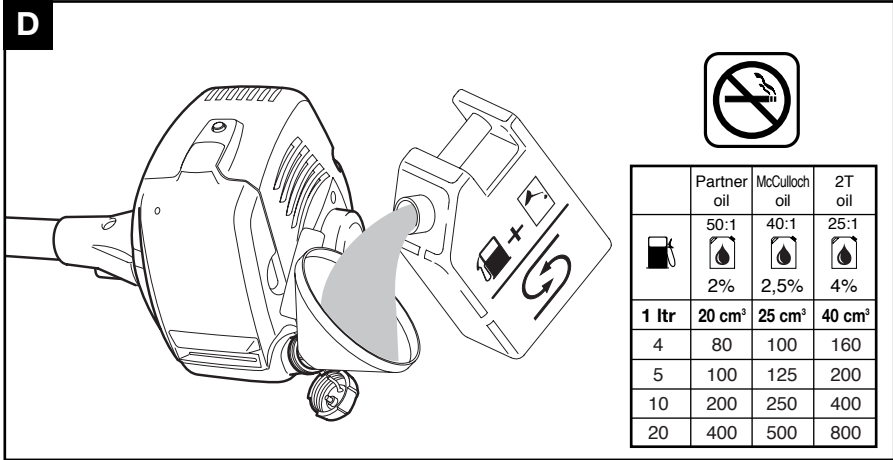
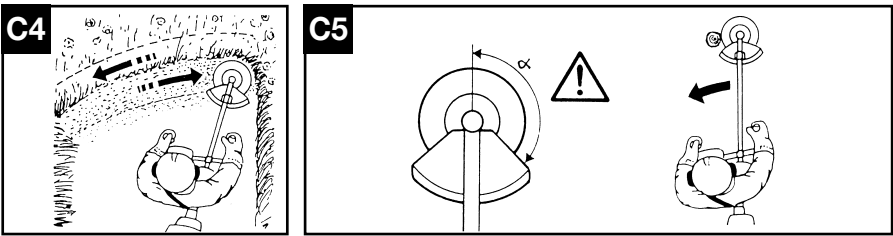
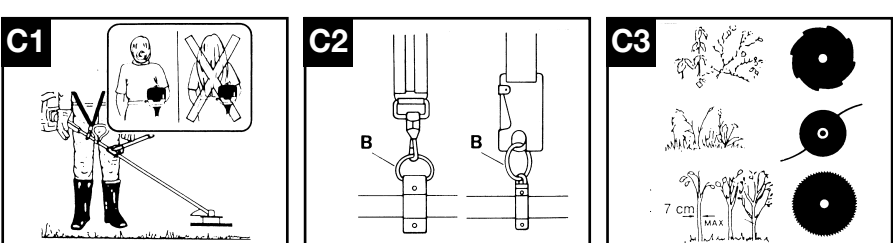
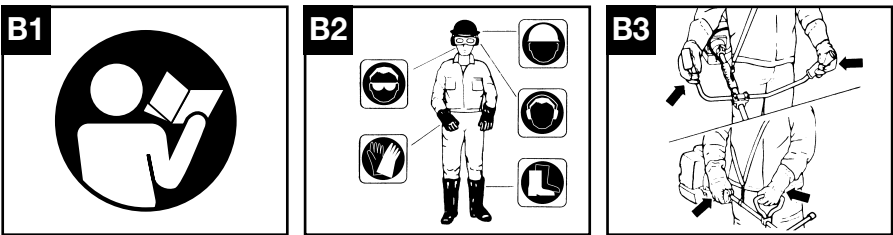
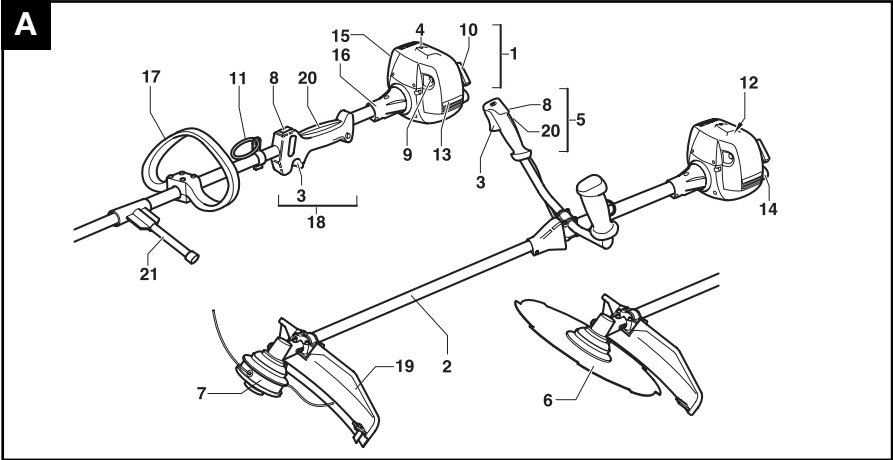
**MANUAL DE INSTRUCCIONES**  
INFORMACIÓN IMPORTANTE: Lea atentamente las instrucciones y asegúrese de entenderlas antes de utilizar esta aparato. Conserve las instrucciones para la referencia en el futuro.

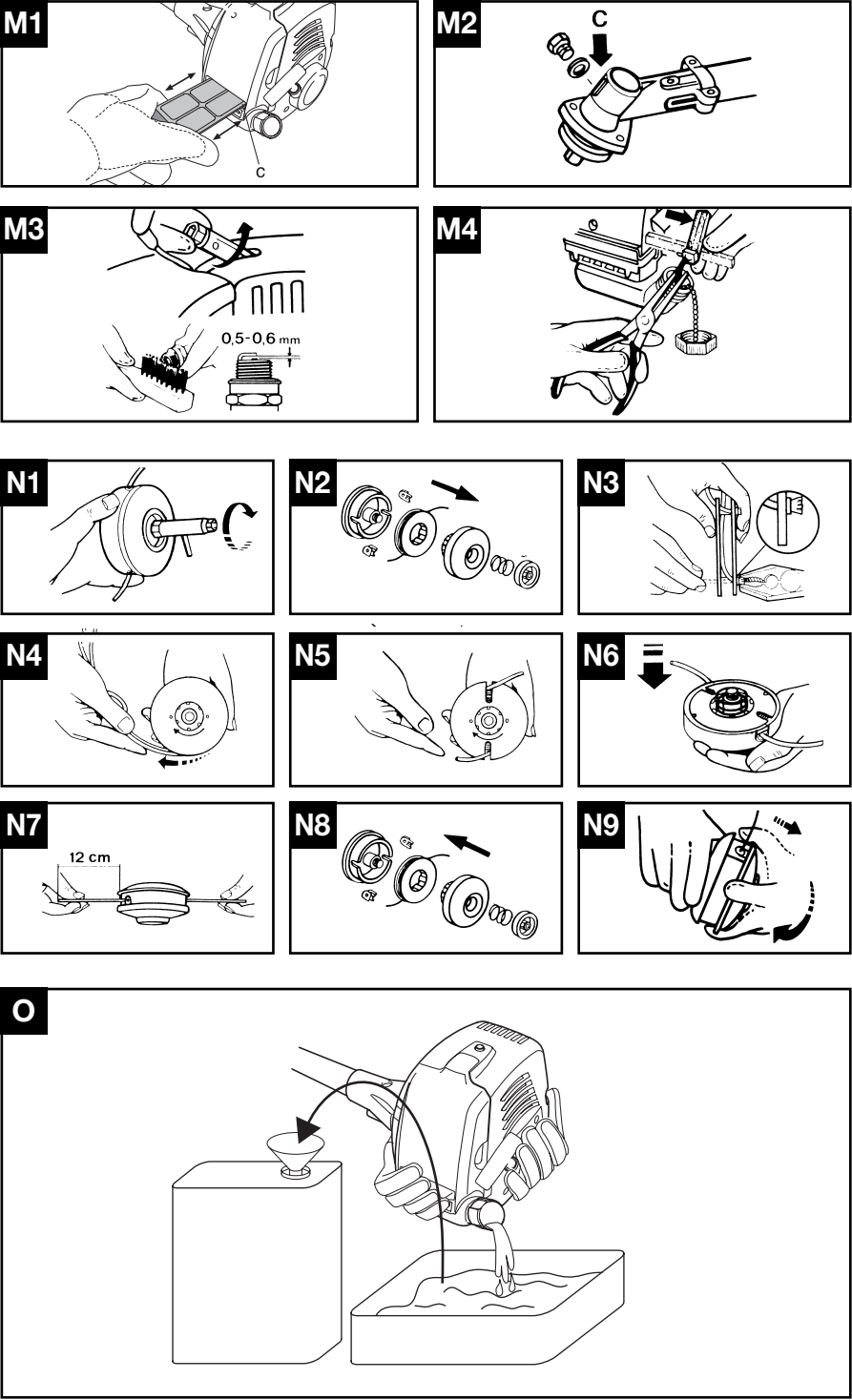
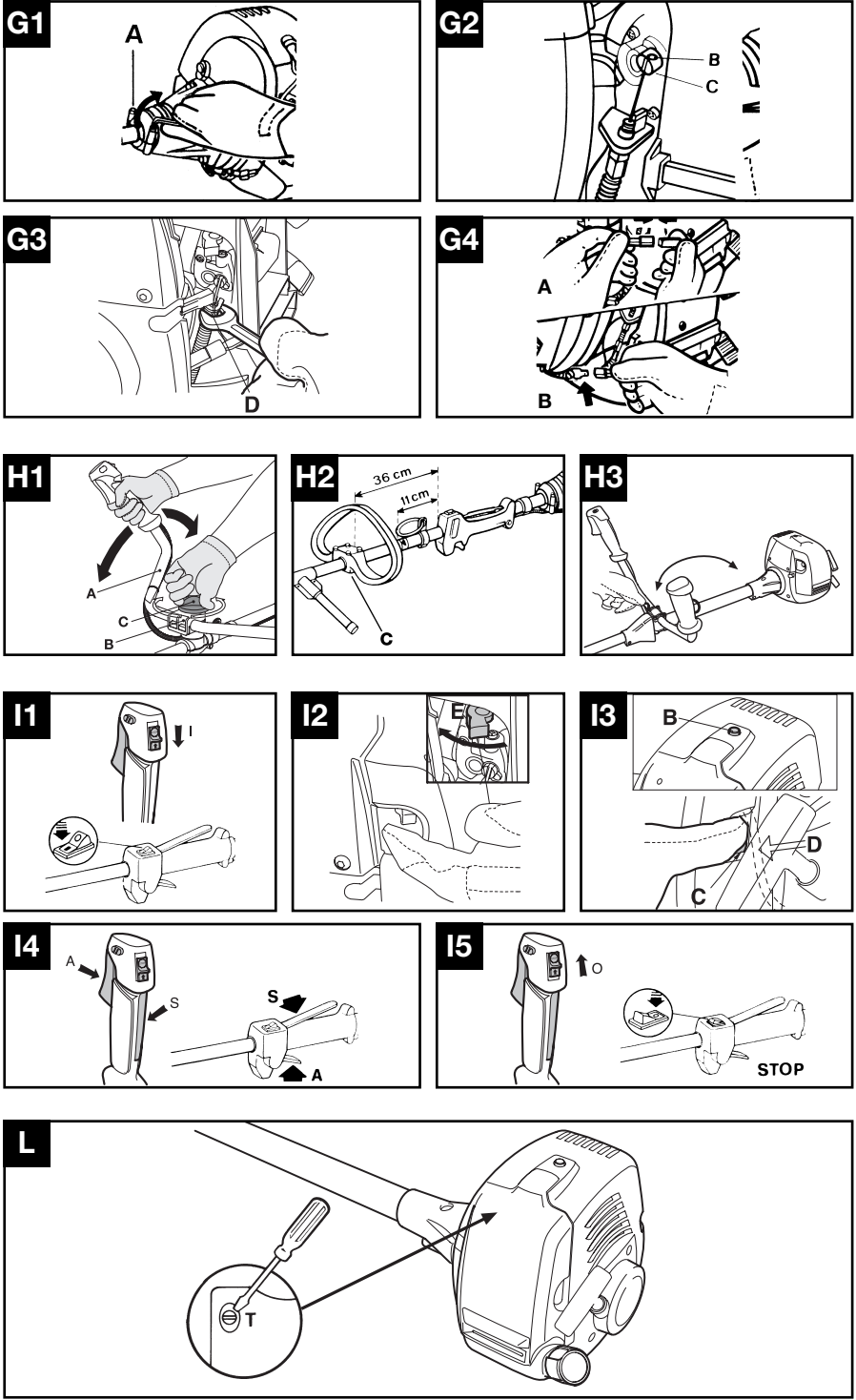
**MANUAL DO OPERADOR**  
INFORMAÇÕES IMPORTANTES: Queira ler cuidadosamente estas instruções e tenha certeza de entendê-las antes de usar a serra e guarde para consulta futura.


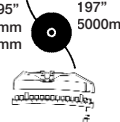
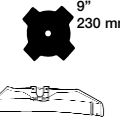
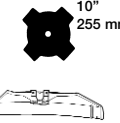
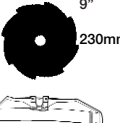
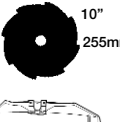
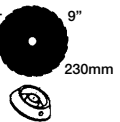

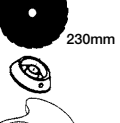

**LIBRETTO D'ISTRUZIONI**  
INFORMAZIONI IMPORTANTI: Leggere le istruzioni attentamente e capirle bene prima di usare l'utensile. Conservare per ulteriore consultazione.

**HASZNÁLATI ÚTMUTATÓ**  
Jótállást vállalni csak rendeltetésszerűen használatba vett gépekre tudunk. Kérj ü hogy a gép használatba vétele előtt gondosan olvassa el a kezelési utasításokat.

**ΕΓΧΕΙΡΙΔΙΟ ΧΕΙΡΙΣΜΟΣ**  
ΣΗΜΑΝΤΙΚΕΣ ΠΛΗΡΟΦΟΡΙΕΣ: Διαβάστε προσεκτικά αυτές τις οδηγίες και φροντίστε να τις κατανοήσετε αυτό το μηχανήμα και φυλάξτε το για να το συμβουλευέστε στο μέλλον.





	42/46 cc	34/38 cc
		
	538242506	240853B
	248960	248959
	226134B	226134B
	248960	248959
	226135B	226135B
	248960	248959
	236711B	236711B
	248960	248959
	236713B	236713B
	248960	248959
	240998B	240998B
	240936B	240936B
	240553	240553
	236677	236677
	240953B	240953B
	240936B	240936B
	240553	240553
	236677	236677

- GB** SUMMARY CHART TO IDENTIFY THE CORRECT GUARD NEEDED, WITH DIFFERENT CUTTING ATTACHMENTS
- DE** ÜBERSICHTSTABELLE ZUR AUSWAHL DES RICHTIGEN SCHUTZBLECHES FÜR DIE EINZELNEN SCHNEIDWERKZEUGE
- FR** TABLEAU RECAPITULATIF POUR LE CORRECT ACCOUPLEMENT LAME OU TETE FIL NYLON / DEFENSE DE SECURITE
- NL** OVERZICHTSTABEL OM TE BEPALEN WELKE BESCHERMKAP GEBRUIKT MOET WORDEN BIJ DE DIVERSE MAAI-ONDERDELEN
- NO** TABELL FOR KORREKT MONTERING AV TRÅDSPOLE/SAGBLAD OG SPRUTSKJÆRM/SIKKERHETSVÆRN
- FI** TAULOKKO LEIKKAAVAN PÄÄN/TURVASUOJUKSEN OIKEASTA YHDISTELMÄSTÄ
- SE** SAMMANFATTANDE TABELL ÖVER KORREKT KOMBINATION AV SKÄRHUVUD/SÄKERHETSSKYDD
- DK** OVERSIGTSTABEL VEDRØRENDE DEN KORREKTE SAMMENSÆTNING AF KNIV OG BESKYTTELSESSKÆRM
- ES** TABLA PARA EL CORRECTO ACOPLAMIENTO DE LA CABEZA CORTANTE Y PROTECTOR DE SEGURIDAD
- PT** TABELA DE RESUMO PARA A CORRETA APLICAÇÃO DA CABEÇA CORTANTE E DEFESA DE SEGURANÇA
- IT** TABELLA RIASSUNTIVA PER IL CORRETTO ABBINAMENTO TESTA TAGLIANTE / DIFESA DI SICUREZZA
- HU** ÖSSZEFOGLALÓ TÁBLÁZAT: A NYÍRÓFEJ ÖSSZEÁLLÍTÁSA / BALESETVÉDELEM
- GR** ΠΕΡΙΛΗΠΤΙΚΟΣ ΠΙΝΑΚΑΣ ΓΙΑ ΤΗΝ ΕΠΙΣΗΜΑΝΣΗ ΤΟΥ ΚΑΤΑΛΛΗΛΟΥ ΠΡΟΦΥΛΑΚΤΗΡΑ, ΜΕ ΔΙΑΦΟΡΑ ΚΟΠΤΙΚΑ ΕΞΑΡΤΗΜΑΤΑ

- GB** Due to a constant product improvement programme, the factory reserves the right to modify technical details mentioned in this manual without prior notice.
- DE** Im Sinne des Fortschritts behält sich der Hersteller das Recht vor, technische Änderungen ohne vorherigen Hinweis durchzuführen.
- FR** La Maison se réserve la possibilité de changer des caractéristiques et des données de ce manuel à n'importe quel moment et sans préavis.
- NL** Door konstante produkt ontwikkeling behoudt de fabrikant zich het recht voor om rechnische specificaties zoals vermeld in deze handleiding te veranderen zonder hiervan vooraf bericht te geven.
- NO** Produsenten forbeholder seg all rett og mulighet til å forandre tekniske detaljer i denne manualen uten forhåndsvarsel.
- FI** Jatkuvan tuotteen parannusohjelman tähden valmistaja pidättää oikeuden vaihtaa ilman ennakkovaroitusta tässä ohjekirjasessa mainittuja teknisiä yksityiskohtia.
- SE** Tilverkaren reserverar sig rätten att ändra fakta och uppgifter ur handboken utan förvarning.
- DK** Producenten forbeholder sig ret til ændringer, hvad angår karakteristika og data i nærværende instruktion, når som helst og uden varsel.
- ES** La firma productora se reserva la posibilidad de cambiar las características y datos del presente manual en cualquier momento y sin previo aviso.
- PT** A casa productora se reserva a possibilidade de variar características e dados do presente manual em qualquer momento e sen aviso prévio.
- IT** La casa produttrice si riserva la possibilità di variare caratteristiche e dati del presente manuale in qualunque momento e senza preavviso.
- HU** A gyártó cég fenntartja a jogot arra, hogy a használati utasításban megadott adatokon és technikai tulajdonságokon bármikor és előzetes bejelentés nélkül változtasson.
- GR** Λόγω προγράμματος συνεχούς βελτίωσης προϊόντων, το εργοστάσιο επιφυλάσσεται του δικαιώματος να τροποποιεί τις τεχνικές λεπτομέρειες που αναφέρονται στο εγχειρίδιο αυτό χωρίς προηγούμενη ειδοποίηση.



## A. General description

- |                         |                         |
|-------------------------|-------------------------|
| 1) ENGINE               | 12) SPARK PLUG          |
| 2) SHAFT                | 13) AIR FILTER          |
| 3) THROTTLE TRIGGER     | 14) FUEL TANK CAP       |
| 4) DECOMPRESSION VALVE  | 15) MUFFLER SHIELD      |
| 5) RIGHT CONTROL HANDLE | 16) ENGINE SHAFT JOINT  |
| 6) BLADE                | 17) FRONT HANDLE        |
| 7) NYLON STRING HEAD    | 18) REAR CONTROL GRIP   |
| 8) STOP SWITCH          | 19) SAFETY GUARD        |
| 9) CHOKE LEVER          | 20) SAFETY GRIP         |
| 10) STARTER HANDLE      | 21) SAFETY POLE BARRIER |
| 11) HARNESS RING        |                         |

## Safety precautions



**If not used properly this Petrol Brushcutter can be dangerous. The warnings and safety instructions must be followed to ensure reasonable safety and efficiency in using this product. The operator is responsible for following the warnings and instructions in this manual and on the product.**

## Explanation of Symbols



Warning



Read the user instructions carefully to make sure you understand all the controls and what they do.



Wear safety clothing:  
Approved safety glasses or face shield



Wear safety clothing:  
Approved safety helmet



Wear safety clothing:  
Approved ear defender



Wear safety clothing:  
Approved gloves



Wear safety clothing:  
Approved safety footwear



Do not smoke while refuelling or while operating the trimmer



Do not use metal blades



Maximum blade speed



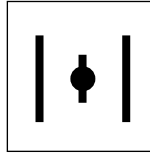
Blade thrust



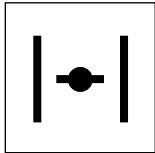
Beware of projected objects



Maximum safety distance



Choke fully opened  
(hot start / run)



Choke closed (cold start)

## B. Safety precautions

- 1) Make sure all operators study this manual carefully before using the trimmer; only use this machine for usage specifically mentioned in this manual.

Never allow children to use the trimmer.

- 2) When working with the trimmer wear suitable clothes: a) Close fitting protective clothes (do not wear short trousers or loose clothes). b) Safety shoes (do not wear sandals and do not work barefoot). c) Heavy-duty gloves. d) Safety face shield or goggles. Ensure you peel off the protective films, if existing, from the see - through plastic. e) Ear protection. f) Head protection when using circular saw blades. Make sure you know how to stop the engine in an emergency (see the section STARTING AND STOPPING ENGINE). Never use the trimmer when tired, physically indisposed or under the effect of alcohol, certain medicines or other drugs. Be careful of the rotating cutting attachment and hot surfaces on the unit.

- 3) Prolonged use of this product or other machines exposing the operator to vibration may produce Whitefinger's disease (Raynaud's Phenomenon). This may reduce the hands' ability to feel and regulate temperature and may produce general numbness. Continual or regular users should therefore monitor closely the condition of their hands or fingers. If any of the symptoms appear, seek immediate medical advice. Always hold the trimmer firmly with both hands. When working maintain a firm foothold. The trimmer must be used exclusively as recommended (see section SAFETY USAGE).

- 4) Do not carry the trimmer while the engine is running even for short distances; switch off the engine and carry the unit with the cutting head behind you. When carrying the trimmer in a vehicle, secure it to avoid fuel leakage. Always empty the fuel tank before transporting the unit. **ATTENTION:** For your safety the blade must be kept at all times in its prop-

er case during transport and storage. Start the trimmer on a flat surface. When starting the unit, ensure you have a firm footing. Make sure the blade or the nylon string head does not touch the ground or any obstacle.

- 5) **PRECAUTIONS AGAINST FIRE:** do not operate the trimmer near fire or spilled petrol. Do not run the engine in closed or poorly ventilated areas. **EXHAUST GASES ARE POISONOUS WHEN INHALED, THEY CAN CAUSE SUFFOCATION AND DEATH.**

After refuelling always wipe off any spilled fuel. Do not smoke during this operation. Start the engine far away from the refuelling area and from fuel containers (minimum distance 3 meters). Do not refuel while the engine is still running.

- 6) Keep people and animals away from working area (minimum distance 15 meters). If somebody should approach you, turn the engine off and stop the blade or the rotating head (see chapter STARTING AND STOPPING THE ENGINE) as during operation the blade or the nylon string head might project grass, grit, or other debris. The blade is sharp, be careful even if handling it when the engine is off.

Wear heavy-duty gloves. Turn the engine off and wait for rotating parts to stop completely before working on the machine or before touching the blade or the string head above all to remove possible entangled material.

**DO NOT USE THE MACHINE AT ALL IF THE SPECIFIED SAFETY GUARD IS NOT FIRMLY ATTACHED** (see sections SAFETY USAGE and BLADES AND NYLON STRING HEAD ASSEMBLY).

Pay careful attention to safety recommendations as you might put your life or somebody else's in danger as a result of: a) possible contact with cutting or rotating parts. b) possibility of projection of various objects.

**WARNING:** do not start engine if it is not attached to the shaft as the clutch might disintegrate. For units

equipped with a clutch, be sure the cutting attachment stops turning when the engine idles.

## C . Safety usage

This product must be held to the right of the operator's body.

This will ensure exhaust fumes are directed away from the operator and will not be obstructed by the operator's clothing. If you have not used a trimmer before, spend some time in becoming familiar with the controls and method of usage before operation.

Check the machine carefully before using it.

Make sure that there are no loosened screws, damaged parts or fuel leakages.

Replace damaged or excessively worn accessories (blades, string heads, guards).

Ensure all maintenance or repair work is carried out by an authorised service center.

**N.B.** In order to maintain performance and safety, be sure to use original spare parts and accessories.

Avoid using the trimmer over excessively long periods of time.

Excessive amounts of vibration can be harmful.

- 1) Remove from the working area grit, debris, ropes, metal parts or any other object which might get entangled around the rotating parts or be dangerously projected.

Use only the correct accessory recommended for the type of vegetation to be cut. Do not let the rotating blade contact any foreign object such as stones, rocks, cans etc.

Secure hair to keep it above shoulder height. Before starting to work fit the harness. Adjust harness with the buckle so that the trimmer is well balanced on your right side and the blade or string head is parallel to the ground. Always maintain a firm foothold and a good balance while using the machine. Do not move backwards while you work as obstacles may not be visible.

The fitting of the safety pole barrier is obligatory on units equipped with a delta shaped handle when used with a metal blade.

The purpose of this safety pole barrier is to maintain a safe distance between the metal blade and the user under all normal or exceptional circumstances.

- 2) Harness ring (B) must never be moved from its original position to avoid unbalancing the unit.

Front handles can be separately adjusted to make usage easier on units fitted with "U" shaped handles.

- 3) The following accessories can be assembled to your trimmer: a) blade, b) nylon string head.

Do not attach any blade to a unit without proper installation of all required parts. Failure to use the proper parts can cause the blade to fly off and seriously injure the operator and/or bystanders.

- a) WHEN USING A BLADE ENSURE THE COR-

RECT GUARD IS FITTED.

- b) WHEN USING A NYLON STRING HEAD ENSURE THE CORRECT GUARD IS FITTED.

When using the unit always hold the front part of the machine (blade or nylon string head) below your waist.

### NYLON STRING HEAD:

Always make sure it has been correctly assembled and fitted.

The nylon head is suitable to cut grass and weeds wherever there might be obstacles like trees, fences or walls.

The nylon string head also reduces the likelihood of damaging small plants and trees bark.

Only use flexible, nonfilament nylon line in the nylon line head as specified by the manufacturer. Never use metallic line which could break off and become a dangerous projectile.

### BLADE:

Always make sure it has been correctly fitted.

When fitting or changing a cutting device, ensure you follow the instructions in the section "Blade or nylon string head assembly" with extreme precision. Fit these cutting devices using all and only the parts as described, and in the correct order.

- 4) BLADES: you can cut any type of grass, brushwood or shrub.

Operate the machine like a sickle always cutting at full throttle.

- 5) WARNING: always use a well sharpened blade.

A blade with worn teeth besides providing poor performance might also generate a sudden thrust. This can result in a violent sideways kick caused when the blade touches against wood or solid bodies, such thrust might then cause the operator to loose control of the machine itself. Never attempt to work with a damaged blade but replace it with a new one.

THRUST: can occur when using any type of circular blade within the risk area: therefore it is advisable to cut using the remaining area of the blade.

CIRCULAR SAW BLADE: it can be used to cut sappling, small trees with a diameter up to 7 cm., to clean shrubs.

**WARNING: IF A METAL 24-80 TOOTH BLADE (A SAW TOOTH BLADE) IS USED A DOUBLE SHOULDER HARNESS AND A SAFETY GUARD (PROTECTION) MUST ALSO BE USED AS MARKED IN THE SUMMARY CHART (SEE CLOTHES SECTION IN SAFETY CHAPTER: ALWAYS WEAR A HELMET).**

**ALWAYS USE GENUINE ACCESSORIES AND SPARE PARTS AVAILABLE FROM AUTHORIZED SERVICING DEALERS. THE USE OF**

**NON-ORIGINAL ACCESSORIES AND SPARE PARTS INCREASES THE RISK OF ACCIDENTS AND IN SUCH A CASE THE COMPANY IS NOT**

**LIABLE FOR DAMAGE TO PEOPLE AND/OR THINGS.**

**D. Fuel mix**

Do not use any other type of fuel than the type recommended in this manual.

**This product is equipped with a two-stroke engine and must therefore use a mixture of lead-free gasoline (with a minimum of 90 octanes) and fully synthetic oil for two-stroke engines, specific for lead-free gasoline in the proportions indicated in the table on the cover page at item (D).**

**IMPORTANT! Read the oil specifications on the can carefully: the use of oil lacking the specifications indicated in this manual can cause severe damage to the engine!**

To obtain the best mixture, pour the oil first, followed by the gasoline, into an approved container, shake well (repeat the operation every time you draw any fuel from the container).

The characteristics of the mixture are subject to aging and may be altered in time, so we recommend mixing only the amount strictly needed for use. If you use a mixture that is several weeks old, this could damage the engine.

**WARNING**

Do not smoke when re-fuelling.

Always open the fuel cap slowly, to release any pressure build up in the tank.  
Re-fuel in open spaces only, keeping away from naked flames or sparks.

**SAFE STORAGE OF FUEL**

Petrol fuel mix is highly inflammable.

Put out all cigarettes, pipes and cigars before working with fuel.

Avoid spilling fuel. Store fuel in a cool, well ventilated place, in an approved container specifically designed for the purpose.

Never store engine with fuel in the tank in enclosed, poorly ventilated areas where fuel fumes may reach an open flame, spark or pilot light such as in a furnace, water heater, clothes dryer etc. Petrol fumes can cause an explosion or a fire. Never store large amounts of fuel.

To prevent possible restarting problems avoid running the fuel tank dry.

This also helps to extend engine life.

**E. Safety guard assembly**

**1)** In the interest of safety, it is imperative that the unit is used with the correct guard (P/N 248959 Ø25 P/N 248960 Ø30) when using any blade or a nylon string head, except the 24-80 tooth blade. Line cutter blade (L): assemble as illustrated E1.

**2-3)** When using a saw tooth blade (optional accessory), the correct guard must be fitted (P/N 240553).

A double shoulder harness must also be worn.

Only use blades or nylon string heads clearly marked with a maximum speed of at least 10,500 min<sup>-1</sup>.

Follow the fitting instructions carefully.

**N.B:** Saw tooth blades (24 - 80 tooth) have a central base diameter of 20mm and therefore require the use of the appropriate size top flange to ensure a correct fit. The part number is detailed in the cutting attachment summary chart.

**F. Blade and nylon string head assembly**

Assemble the correct guard to suit the kind of blade or nylon string head to be used (See section: SAFETY GUARD ASSEMBLY).

**1)** Assemble blade as illustrated:

- a) Flange guard - b) Upper cap with blade centering - c) Blade with text and directional arrow facing upwards - d) Lower washer - e) Fixed mower gauge - f) Blade locking screw (length mm 16).

**2)** If you want to assemble the rotating mower gauge, proceed as illustrated:

- a) Flange guard - b) Upper cap with blade centering - c) Blade with text and directional

- arrow facing upwards - d) Lower washer - e) Spacer - f) Rotating mower gauge - g) Blade locking screw (length mm 34,5).

Replace the blade attachment bolt if damaged in any way.

**3)** Make sure that the blade bore opening fits perfectly around the centering collar on the upper cap.

**Tighten counterclockwise.**

While tightening, the blade assembly can be held fast by inserting the wrench or the screw-driver supplied into the cap and gearcase holes.

To do this, rotate the cap until the two holes coincide.

- 4) Assemble nylon string head as illustrated:  
a) Flange guard - b) Upper cap - c) Guard d) Nylon string head  
**Tighten counterclockwise.**

- 5) While tightening, the head assembly can be held fast by inserting the wrench or the screw-driver supplied into the holes as already shown for blade assembly.

**WARNING: Do not use the guard for the nylon string head when using a metal blade.**

## G. Engine/shaft assembly

### BACK-PACK BRUSHCUTTER

See sections BACK-PACK BRUSHCUTTER.

**DANGER.** Do not run engine without shaft attached as clutch could fly off.

- 1) Assemble the engine onto the shaft. Make sure the shaft is fully and correctly engaged up to the shank, then tighten the 2 screws (A) in a criss-cross sequence.

- 2) Fit the end of the trigger cable connector (B) into the slot on swivel (C).  
3) Adjust the screw (D) of the trigger cable connector so that the cable can easily slide in the opening with a play of 1 mm before operating the swivel (C).  
Tighten now the hexagonal nut (E).  
4A) Stop switch (STOP) cable: fit the connection.  
4B) Earth lead: connect as illustrated.

## H. Handle assembly

### 1) DOUBLE HANDLE

Handle (A) can be adjusted for individual operator comfort by swivelling it forwards or backwards. To do this, loosen button (C), position the handle for maximum comfort, then tighten button (C) securely. Clip the suspension harness hook into one of the 5 holes on the top side of the shaft support to achieve the best balance according to the type of work to be undertaken.

**NB:** Handle assembly (A) can be folded parallel to the shaft to facilitate transportation or storage. To do this, loosen knob (C), twist support (B) 90° in a clockwise direction, fold the handle (A) into the required position and then tighten knob (C).

### 2) DELTA FRONT HANDLE

Secure the handle in front of the label placed on the shaft 11 cm from the rear grip when assembling nylon string head and 36 cm when assembling metallic blades. This position ensures optimum balance and safety. The handle must be perpendicular to the shaft as illustrated (Fig.2). The handle bar must be mounted using all the items supplied and in the exact configuration shown in figures 1 or 2.

### 3) DOUBLE HANDLE

Adjust and secure double hand clamp by tightening the screws.

## I. Starting and stopping the engine

**WARNING:** Before using the product every user should carefully read the sections SAFETY, SAFETY USAGE and SYMBOL MEANINGS.

### STARTING A COLD ENGINE

- 1) Position the on/off switch to the I (ON) position, away from the «STOP» position.  
2) Rotate the choke lever in the direction illustrated by the arrows. This engages the fast idle system.  
3) Squeeze the primer bulb (C) several times until you see fuel begin to return back through the tube (D) towards the fuel tank. Push the decompression valve (B)

down if your models is fitted with one. Pull the starter handle until the engine starts.

- 4) Hold the machine safely and allow the engine to run for a few seconds. Grip the control handle firmly, pushing down on the safety trigger (S) and then squeezing the accelerator trigger (A). This action automatically releases the spring loaded choke lever (E) disengaging the fast idle system.

**WARNING:** The fast idle system does cause the cutting attachment to rotate when engaged.

## STARTING A WARM ENGINE

Position the on/off switch to the **I** (ON) position. Squeeze the primer bulb (**C**) several times until you see fuel begin to return back through tube (**D**) to the fuel tank. Push the decompression valve (**B**) down if your model is fitted with one. Pull the starter handle until the engine runs.

## 5) STOPPING THE ENGINE

Push the on/off switch to the STOP position.

**WARNING:** After the engine has been

switched off, the rotating cutting attachment, blade or string head, will continue to rotate for a few seconds due to their inertia. Continue to hold the machine firmly off the ground until it stops completely. Keep your hands away whilst it is moving.

**N.B.** In an emergency, the cutting attachment can be stopped quickly by touching it parallel to the ground after moving the switch to the «STOP» position.

## L. Carburettor adjustment

To adjust the idle speed, however, proceed as follows:

With engine running and warm, slowly turn screw 'T' clockwise until the engine runs smoothly with a consistent noise level but without making the cutting head rotate.

If the cutting attachment does move or the engine runs too fast, slowly turn screw 'T' in an anti-clockwise direction until the correct speed is obtained.

Precise numerical engine speed settings are mentioned in the technical detail chart in the front of the owner's manual.

## M. Regular maintenance

From time to time ensure all screws are tight. Replace damaged, worn, cracked or warped blades. Always make sure nylon string head or blade have been assembled correctly (see sections **NYLON STRING HEAD** and **BLADE ASSEMBLY**) and blade fastener is tightened.

### 1) AIR FILTER CLEANING

(at least every 25 working hours).

A dust clogged air filter may cause carburetor problems.

This may prevent the engine from reaching its maximum speed and cause high fuel consumption and/or difficult starting.

Remove filter cover as shown in figure 1. Carefully clean the inside of filter box. The filter can also be cleaned with compressed air.

**N.B.** Slide the air filter back into its location (**C**) ensuring the tabs (**A**) are pointing downwards as illustrated, ensure it clicks firmly into its airtight position.

2) Every 50 working hours inject the gearcase with gear grease under high pressure through hole (**C**).

### 3) SPARK PLUG

From time to time (at least every 50 hours) remove and clean the spark plug and check the electrode gap (0,5/0,6 mm.). Replace spark plug about every 100 working hours or whenever it is extremely encrusted. Heavily encrusted electrodes can result from wrong fuel mixture (too much oil in the petrol) or a poor quality of oil in the fuel mix. Check and correct.

### 4) FUEL FILTER

To change fuel filter remove the tank cap and pull out the filter with a piece of bent wire or long forceps. Contact your Service Station for general servicing and cleaning of internal parts at least once a year. This will reduce the possibility of unexpected problems and will ensure maximum product life and efficiency.

**REGULARLY:** it is important, in order to avoid engine overheating, to remove dust and dirt from slots, gaps and from in between cylinder fins using a wooden scraper.

**LONG STORAGE:** empty fuel tank and run engine until dry.

Store trimmer in a dry place.



## N. Replacing nylon line

- 1) Loosen the locking nut on the base of the nylon head by turning it clockwise.
- 2) Remove the base cover assembly.  
Remove the empty spool from the housing and discard any remaining line.

### REWINDING NEW LINE

- 3) Prepare 2 lengths (8ft each) of 2.4 mm nylon line. Thread 1 end of each line into the two holes on opposite sides of the spool. Pinch the exposed ends flat with a pair of pliers to prevent them slipping through the hole.
- 4) Wind the two lines in the same direction around the spool.

### REASSEMBLY

- 5) Slide the end of the two lines into the grooves to hold the line temporarily.
- 6) Position the spool back into the housing and pull the line through the eyelets.
- 7) Pull about 12cm (5ins) of line out on either side.
- 8) Reassemble the nylon string head as illustrated; mower gauge, spring and locking nut (tighten in an anti-clockwise direction).
- 9) **N.B:** In order to extend the nylon line as it wears down, pull the mower gauge downwards and turn it in a clockwise direction to feed out the desired length of line.

## O. Ecology

This chapter is about how to maintain the "eco features" of the machine as originally developed by our engineers, the correct use of this machine and handling of waste oil and fuel.

1. Research on the 4 stroke engine has been developed in order to produce lower fuel consumption and low emission of polluting exhaust gases
2. Use of the machinery: During the fuel filling operation particular care should be taken to avoid

waste fuel polluting the environment.

3. When storing for a long period, empty fuel tank and run engine until dry, observing the same precautions as when filling.
4. Disposal of machines: Old machines can be very dangerous for the environment - do not throw them away!! Please apply to the competent body authorised to collect industrial waste. As prescribed by National laws on environment

## Technical data

DISPLACEMENT (cm3)	34	38	42	46
BORE AND STROKE (mm)	38x30	40x30	41x32	43x32
ENGINE OUTPUT (Kw)	1,2	1,3	1,6	1,8
ENGINE SPEED AT MAX POWER (min-1)	8.000	8.000	8.000	8.200
MAXIMUM SPEED, NO LOAD (min-1)	10.000	10.000	10.000	11.000
MINIMUM SPEED (min-1)	2.800	2.800	2.800	2.800
BLADE SHAFT SPEED (min-1)	7.700	7.700	7.700	8.500
BLADE LOCKING NUT TIGHTENING TORQUE (Nm)	17	17	17	17
DRY WEIGHT (kg)	7,1	7,3-8,3 PRO	7,4-8,4 PRO-8,8 BP	7,7-8,7 PRO-10,8 BP
FUEL TANK CAPACITY (cm3)	900	900	900	900
SOUND PRESSURE LEVEL (AT THE OPERATOR'S EAR) LpAav (dBA) (ISO7917)	97	97	97	106
GUARANTEED NOISE LEVEL LwAav (dBA) (ISO 10884)	114	114	114	114
MEASURED SOUND POWER LEVEL LwAav (dBA) (ISO 10884)	113	113	113	113
VIBRATIONS LEVEL STRING HEAD (ISO 7916) (m/s2) MAX-MIN	8,2-1,6	8,2-1,7	10,55-1,8	12,5-1,06
VIBRATIONS LEVEL BLADE (ISO 7916) (m/s2) MAX-MIN	8,2-1,6	8,2-1,7	16,38-1,8	17,79-1,06

### Fault finding table

	Engine will not start	Engine runs badly or loses power when cutting	The machine runs but does not cut well
Check STOP switch is in the position I.	●		
Control fuel level min. 25% tank capacity.	●	●	
Check air filter is clean.	●	●	
Remove spark plug, dry it, clean it and adjust it, and replace it, if necessary.	●	●	
Change fuel filter. Contact your dealer.		●	
Carefully follow the cutting accessory assembly instructions.			●
Check metal cutting accessory is sharp. Otherwise, contact your dealer.			●

**Engine still gives trouble:** contact your dealer.